

SABIC Innovative Plastics LNP STAT-KON DX05305C PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Stat-kon* DX05305C is a compound based on Polycarbonate resin containing Carbon Powder. Added features of this material include: Electrically Conductive, Clean Compounding System.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DX05305C-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0074 cm/cm	0.0074 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0061 cm/cm	0.0061 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	ASTM D638
	54.0 MPa	7830 psi	ISO 527
Tensile Strength, Yield	22.0 MPa	3190 psi	ASTM D638
Elongation at Break	5.9 %	5.9 %	ASTM D638
Elongation at Yield	1.9 %	1.9 %	ASTM D638
Tensile Modulus	2.62 GPa	380 ksi	1 mm/min; ISO 527
	2.65 GPa	384 ksi	50 mm/min; ASTM D638
Flexural Strength	96.0 MPa	13900 psi	ASTM D790
	101 MPa	14600 psi	ISO 178
Flexural Modulus	2.59 GPa	376 ksi	ASTM D790
	2.73 GPa	396 ksi	ISO 178
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.12 J/cm	18.96 ft-lb/in	ASTM D4812

Mechanical Properties (ISO)	Metric (/m ^Å ²)	English (lb/in ^Å ²)	Comments (ISO 180/1A)
Izod Impact, Unnotched (ISO)	80.0 kJ/m ^Å ²	38.1 ft-lb/in ^Å ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	2.00 J	1.48 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	61.4 Åµm/m-Å°C	34.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	64.8 Åµm/m-Å°C	36.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	61.2 Åµm/m-Å°C	34.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	61.5 Åµm/m-Å°C	34.2 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	130 Å°C	266 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	142 Å°C	288 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	132 Å°C	270 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	135 Å°C	275 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 ohm-cm - 1e+05	100 ohm-cm - 1e+05	ASTM D257
Surface Resistance	100 ohm - 1e+05	100 ohm - 1e+05	ASTM D257

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